

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
20 January 2005 (20.01.2005)

PCT

(10) International Publication Number
WO 2005/006008 A1

(51) International Patent Classification⁷: **G01R 33/3875**

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(21) International Application Number:
PCT/IB2004/002223

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(22) International Filing Date: 7 July 2004 (07.07.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/486,633 11 July 2003 (11.07.2003) US

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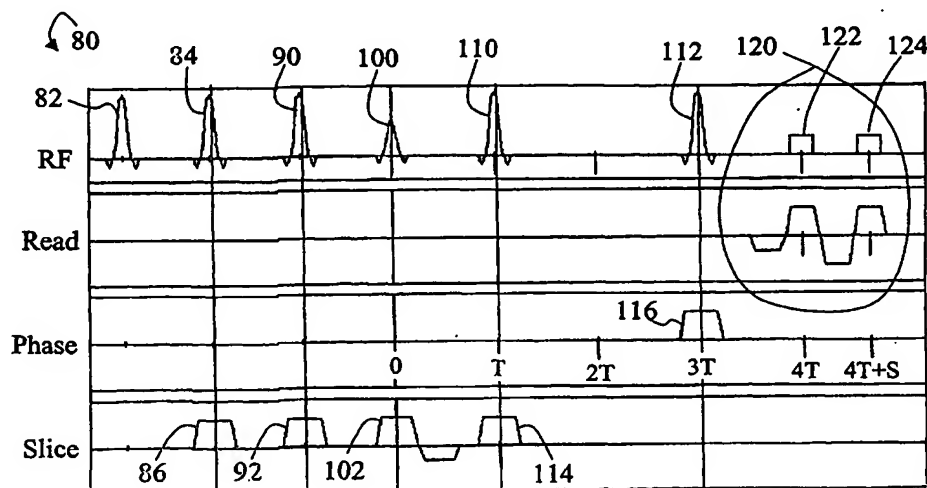
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(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AL, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,
ZW.

(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI,

[Continued on next page]

(54) Title: SHIMMING OF MRI SCANNER INVOLVING FAT SUPPRESSION AND/OR BLACK BLOOD PREPARATION



(57) Abstract: In a method for shimming a magnetic resonance imaging scanner (10), at least one of fat suppression and blood suppression is performed to suppress magnetic resonance from a corresponding at least one of fat and blood. First and second magnetic resonance echoes emanating from a generally columnar volume are measured. The measurements of the first and second magnetic resonance echoes (122, 124) are reconstructed (150) into corresponding first and second generally columnar projection images (152, 154). The first and second generally columnar projection images are combined (160) to produce a magnetic field profile (174) of the generally columnar volume. Selected magnetic field parameters are extracted (142) from the magnetic field profile. Shim currents are computed (180) from the selected magnetic field parameters. The shim currents are applied to magnetic field coils (16, 60).

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